SABERTOOTH Z97 MARK 1

Intel® Socket 1150 for the 5th/New 4th/4th Generation Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processors
Supports Intel® 22 nm CPU
Supports Intel® Turbo Boost Technology 2.0
* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.
* Refer to www.asus.com for CPU support list

- ## Chipset

  Intel® Z97

- ## Memory

  4 x DIMM, Max. 32GB, DDR3 1866/1600/1333/1066 MHz Non-ECC, Un-buffered Memory *
  Dual Channel Memory Architecture
  Supports Intel® Extreme Memory Profile (XMP)
  * Hyper DIMM support is subject to the physical characteristics of individual CPUs.
  * Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).

- ## Graphic

  Integrated Graphics Processor
  Multi-VGA output support : HDMI/DisplayPort ports
  - Supports HDMI with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz
  - Supports DisplayPort with max. resolution 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz
  Maximum shared memory of 512 MB
  Supports Intel® InTru™ 3D, Quick Sync Video, Clear Video HD Technology, Insider™
  DP 1.2 Multi-Stream Transport compliant, supports DP 1.2 monitor daisy chain up to 3 displays

- ## Multi-GPU Support

  Supports NVIDIA® Quad-GPU SLI™ Technology
  Supports AMD Quad-GPU CrossFireX™ Technology

- ## Expansion Slots

  2 x PCIe 3.0/2.0 x16 (Single at x16, dual at x8/x8)
  1 x PCIe 2.0 x16 (max at x4 mode, black)
  3 x PCIe x1

- ## Storage

Intel® Z97 chipset :
1 x SATA Express port, black*[1]
4 x SATA 6Gb/s port(s),
Support Raid 0, 1, 5, 10
Supports Intel® Smart Response Technology, Intel® Rapid Start Technology, Intel® Smart Connect Technology *[2]
ASMedia® PCIe SATA controller : *[3]
2 x SATA 6Gb/s port(s), beige

- ## LAN

Intel® I218V
Realtek® 8111GR
Dual Gigabit LAN controllers- 802.3az Energy Efficient Ethernet (EEE) appliance

- ## Audio

Realtek® ALC1150 8-Channel High Definition Audio CODEC
- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking
- High quality 112 dB SNR stereo playback output (Line-out at rear) and 104 dB SNR recording input (Line-in)
Audio Feature :
- Absolute Pitch 192kHz/ 24-bit True BD Lossless Sound
- Blu-ray audio layer Content Protection
- Optical S/PDIF out port(s) at back panel
- Audio Shielding: Ensures precision analog/digital separation and greatly reduced multi-lateral interference
- Dedicated audio PCB layers: Separate layers for left and right channels to guard the quality of the sensitive audio signals
- Audio amplifier: Provides the highest-quality sound for headphone and speakers
- Unique de-pop circuit: Reduces start-up popping noise to audio outputs

- ## USB Ports

Intel® Z97 chipset :
6 x USB 3.0/2.0 port(s) (2 at back panel, blue, 4 at mid-board)
ASMedia® USB 3.0 controller :
2 x USB 3.0/2.0 port(s) (2 at back panel, blue)
Intel® Z97 chipset :
8 x USB 2.0/1.1 port(s) (4 at back panel, black, 4 at mid-board)

- Special Features

TUF Features:
TUF ENGINE! Power Design :
- 8 + 2 Digital Phase Power Design
- TUF Components (New Alloy Choke, Ti-Cap. & MOSFET; certified by military-standard)
- ASUS DIGI+ Power Control Utility

Ultimate COOL! Thermal Solution :
- TUF Thermal Armor with Flow Valve
- TUF Thermal Radar 2
- TUF ICe

Safe & Stable! Guardian Angel :
- Dust Defenders
- TUF Fortifier
- TUF ESD Guards

ASUS Exclusive Features :
- MemOK!
- AI Suite 3
- Ai Charger+
- Anti-Surge
- ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface
- USB 3.0 Boost
- Disk Unlocker
- Turbo LAN

Interactive HomeCloud
- Media Streamer

ASUS EZ DIY :
- ASUS O.C. Profile
- ASUS CrashFree BIOS 3
- ASUS EZ Flash 2
- ASUS USB BIOS Flashback
- ASUS UEFI BIOS EZ Mode
- Multi-language BIOS
- Push Notice

ASUS Q-Design :
- ASUS Q-Shield
- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)
- ASUS Q-Slot
- ASUS Q-DIMM
- ASUS Q-Connector

- Operating System Support

Windows® 8.1
Windows® 8
Windows® 7

- ## Back I/O Ports

1 x DisplayPort
1 x HDMI
2 x LAN (RJ45) port(s)
4 x USB 3.0 (blue)
4 x USB 2.0
1 x Optical S/PDIF out
5 x Audio jack(s)
1 x USB BIOS Flashback Button(s)

- ## Internal I/O Ports

2 x USB 3.0 connector(s) support(s) additional 4 USB 3.0 port(s) (19-pin)
2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)
1 x SATA Express connector: , compatible with 2 x SATA 6.0 Gb/s ports
1 x TPM header
6 x SATA 6Gb/s connector(s)
1 x CPU Fan connector(s) (1 x 4 -pin)
1 x CPU OPT Fan connector(s) (1 x 4 -pin)
4 x Chassis Fan connector(s) (4 x 4 -pin)
3 x Assistant Fan connector(s) (2 x 3 -pin, 1 x 4 -pin)
1 x S/PDIF out header(s)
1 x Thunderbolt header(s)
1 x 24-pin EATX Power connector(s)
1 x 8-pin ATX 12V Power connector(s)
1 x Front panel audio connector(s) (AAFP)
1 x System panel(s)
1 x DRCT header(s)
1 x MemOK! button(s)
3 x Thermal sensor connector(s)
1 x Clear CMOS jumper(s)

- ## Accessories

User's manual
Accessory Guide
ASUS Q-Shield

4 x SATA 6Gb/s cable(s)
1 x SLI bridge(s)
1 x Q-connector(s) (2 in 1)
2 x Accessory Fan(s) (35 /40 mm)
1 x TUF 5 Year Warranty manual(s) (by region)
1 x TUF Inside sticker(s)
1 x Accessory Package(s):
- 3 x PCIe x16 slot dust cover(s)
- 2 x DRAM slot dust cover(s)
- 3 x PCIe x1 slot dust cover(s)
- 2 x Short fan screw(s)
- 4 x Long fan screw(s)
- 3 x Thermistor cable(s)
- 1 x back I/O dust frame
- 1 x back I/O dust grid
- 1 x connector dust cover collection (On board USB 3.0, DVI, HDMI, DP, LAN)
- 2 x On board USB 2.0 connector dust cover(s)
- 8 x back I/O USB 2.0 connector dust cover(s)
- 7 x On board SATA connector dust cover(s)
- 1 x SATA Express conector dust cover(s)
- 5 x Audio connector dust cover(s)

BIOS

64 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI2.7, WfM2.0, SM BIOS 2.7, ACPI 5.0, Multi-language BIOS,
ASUS EZ Flash 2, ASUS CrashFree BIOS 3, My Favorites, Quick Note, Last Modified log, F12 PrintScreen, F3 Shortcut functions, and ASUS DRAM SPD (Serial Presence Detect) memory information

Manageability

WfM 2.0, DMI 2.7, WOL by PME, PXE

Support Disc

Drivers
Anti-virus software (OEM version)
ASUS/TUF CPU-Z
ASUS Utilities

Form Factor

ATX Form Factor
12 inch x 9.6 inch (30.5 cm x 24.4 cm)

- Note

*2: These functions will work depending on the CPU installed.
*3: These SATA ports are for data hard drivers only. ATAPI devices are not supported.